

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A temperature control device comprising:
a plurality of ~~cell parts~~ (2) cassettes holding microorganisms or cells; and
a heater [(1)] and a cooling unit [(7)] making control of temperatures inside said ~~cell parts cassettes~~, wherein
said control is corrected by using an ambient temperature that is a temperature of an environment in which said temperature control device itself is installed [(T1)].
2. (Currently Amended) The temperature control device according to claim 1, wherein said heater [(1)] comprises:
a first heater line (~~11; 11, 12~~) and a second heater line (~~14; 13~~);
a plurality of first thermal conductors (~~31; 31, 32~~) provided for said first heater line;
and
a plurality of second thermal conductors (~~32, 33; 33~~) provided for said second heater line.
3. (Currently Amended) The temperature control device according to claim 1, wherein said heater [(1)] comprises:
a first heater line [(11)] and a second heater line [(14)];
a plurality of first thermal conductors [(31)] provided for said first heater line; and
a plurality of second thermal conductors (~~32, 33~~) provided for said second heater line,
wherein said first thermal conductor and said second thermal conductor are controlled to different temperatures from each other.
4. (Currently Amended) The temperature control device according to claim 1, wherein said heater [(1)] comprises:
a first heater line (~~11, 12~~) and a second heater line [(13)];
a plurality of first thermal conductors (~~31, 32~~) provided for said first heater line;

a plurality of second thermal conductors ~~[(33)]~~ provided for said second heater line;
a first thermometer ~~(41, 42)~~ provided for one of said first thermal conductors; and
a second thermometer ~~[(43)]~~ provided for one of said second thermal conductors,
said first thermal conductors being equal in thermal capacity,
said second thermal conductors being equal in thermal capacity, and
said first thermal conductors and said second thermal conductors being different from
each other in thermal capacity.

5. (Currently Amended) The temperature control device according to claim 1, further comprising:

a thermometer ~~[(45)]~~ measuring said ambient temperature ~~[(T1)]~~;
a storage unit ~~[(5)]~~ storing calibration data; and
a control unit ~~[(6)]~~ setting a target value ~~[(T0)]~~ for said temperatures inside said ~~cell-parts cassettes~~, and controlling said heater ~~[(1)]~~ and said cooling unit ~~[(7)]~~ with a second target value ~~[(T2)]~~ that is obtained based on said target value ~~[(T0)]~~ and said calibration data in accordance with said ambient temperature.

6. (Currently Amended) The temperature control device according to claim 5, wherein said heater ~~[(1)]~~ comprises:

a first heater line ~~(11; 11, 12)~~ and a second heater line ~~(14; 13)~~;
a plurality of first thermal conductors ~~(31; 31, 32)~~ provided for said first heater line;
and
a plurality of second thermal conductors ~~(32, 33; 33)~~ provided for said second heater line.

7. (Currently Amended) The temperature control device according to claim 5, wherein said heater ~~[(1)]~~ comprises:

a first heater line ~~[(11)]~~ and a second heater line ~~[(14)]~~;
a plurality of first thermal conductors ~~[(31)]~~ provided for said first heater line; and
a plurality of second thermal conductors ~~(32, 33)~~ provided for said second heater line,

wherein said first thermal conductor and said second thermal conductor are controlled to different temperatures from each other.

8. (Currently Amended) The temperature control device according to claim 5, wherein said heater $[(1)]$ comprises:

- a first heater line ~~(11, 12)~~ and a second heater line $[(13)]$;
- a plurality of first thermal conductors ~~(31, 32)~~ provided for said first heater line;
- a plurality of second thermal conductors $[(33)]$ provided for said second heater line;
- a first thermometer ~~(41, 42)~~ provided for one of said first thermal conductors; and
- a second thermometer $[(43)]$ provided for one of said second thermal conductors, said first thermal conductors being equal in thermal capacity, said second thermal conductors being equal in thermal capacity, and said first thermal conductors and said second thermal conductors being different from each other in thermal capacity.

9. (Currently Amended) The temperature control device according to claim 1, further comprising:

- a thermometer ~~(45)~~ measuring said ambient temperature $[(T1)]$;
- a control unit $[(6)]$ setting a target value $[(T0)]$ for said temperatures inside said ~~cell parts cassettes~~; and
- a calculation unit $[(8)]$, wherein said calculation unit calculates a second target value $[(T2)]$ from said ambient temperature and said target value $[(T0)]$, and said control unit controls said heater $[(1)]$ and said cooling unit $[(7)]$ with said second target value $[(T2)]$.

10. (Currently Amended) The temperature control device according to claim 9, wherein said heater $[(1)]$ comprises:

- a first heater line ~~(11; 11, 12)~~ and a second heater line ~~(14; 13)~~;
- a plurality of first thermal conductors ~~(31; 31, 32)~~ provided for said first heater line;

and

a plurality of second thermal conductors (~~32, 33; 33~~) provided for said second heater line.

11. (Currently Amended) The temperature control device according to claim 9, wherein said heater $[(1)]$ comprises:
a first heater line $[(11)]$ and a second heater line $[(14)]$;
a plurality of first thermal conductors $[(31)]$ provided for said first heater line; and
a plurality of second thermal conductors (~~32, 33~~) provided for said second heater line,
wherein said first thermal conductor and said second thermal conductor are controlled to different temperatures from each other.

12. (Currently Amended) The temperature control device according to claim 9, wherein said heater $[(1)]$ comprises:
a first heater line (~~11, 12~~) and a second heater line $[(13)]$;
a plurality of first thermal conductors (~~31, 32~~) provided for said first heater line;
a plurality of second thermal conductors $[(33)]$ provided for said second heater line;
a first thermometer (~~41, 42~~) provided for one of said first thermal conductors; and
a second thermometer $[(43)]$ provided for one of said second thermal conductors,
said first thermal conductors being equal in thermal capacity,
said second thermal conductors being equal in thermal capacity, and
said first thermal conductors and said second thermal conductors being different from each other in thermal capacity.

13. (Currently Amended) The temperature control device according to claim 12, wherein
said second heater line $[(13)]$ is provided on an outer edge side of said heater than said first heater line (~~11, 12~~) is,
each of said first thermal conductors (~~31, 32~~) includes a pair of heat blocks $[(3)]$ provided on both sides of said first heater line, and
each of said second thermal conductors $[(33)]$ includes one heat block $[(3)]$ provided for said second heater line on the side of said first heater line.

Appl. No. 10/585,612
Amendment dated October 30, 2009
Reply to Office Action of August 5, 2009

14. (Currently Amended) The temperature control device according to any one of claims 1 to 13, further comprising:

a sensor for each of said ~~cell parts~~ (2) cassettes, said sensor measuring a measurement value that varies depending on metabolism of said microorganisms or cells.